

**Self-Throttling Error-Correction Buffer and Method for a Disc Drive**Abstract of the Disclosure

A method and apparatus for an error-correction buffer having self-throttling data burst control in a disc drive. One aspect of the present invention provides an arbitration-throttling control circuit for use in a disc drive to self-throttle the data transfer of an error-correction buffer. The arbitration-throttling control circuit includes a control circuit having an error-correction buffer interface and a disc-drive main buffer memory interface for controlling data transfer from the error-correction buffer to a disc-drive main buffer in a plurality of data bursts. The control circuit arbitrates for access to transfer data into the disc-drive main buffer such that a series of data bursts from the error-correction buffer to the disc-drive main buffer are spread substantially evenly over a period of time.

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